

Model GC35 Digital Pressure Sensor

FEATURES:

- Combined 3-in-1 digital pressure gauge, switch and transducer
- High overpressure capability
- All stainless steel wetted materials
- Simple "Push-Button" configurability allows user to adjust switch settings, analog scaling
- Rugged aluminum housing

APPLICATIONS:

- Hydraulic presses, stamping equipment, lifts
- Water/wastewater pressure control
- Water, refrigerant or ammonia based cooling systems
- Pressure monitoring on lubrication systems

GloBand™ Display, full 360° visibility

Display:

Type: 4 digit, 10 mm LED
Accuracy: $\pm 1,0$ % F.S. (URL) \pm last digit
Display Update Rate: 200 ms up to 10 s (by user)
Display Setting: User may re-configure display scaling, set to capture MIN or MAX value, and adjust display update rate.
Metric Ranges in bar:
 4 6 10 16 25 40 60 100 160 250 400 600
Metric Compound Ranges in bar:
 -1/4 -1/6 -1/10
Standard Ranges (Gauge) in psi:
 50 100 150 300 500 1000 1500 3000
 5000 7500
Standard Ranges (Compound) in psi:
 -15/75 -15/150 -15/300

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:
 Storage: -20 to 70 °C (-4 to 158 °F)
 Operating: -20 to 70 °C (-4 to 158 °F)
 Compensated: -20 to 70 °C (-4 to 158 °F)
Temperature Effects:
 Zero/Span: (from 23 °C (73 °F) reference temperature) $\pm 0,1$ %/K
Humidity: 0-85 % RH (ranges ≤ 10 bar / 150 psi)
 0-100 % RH (ranges ≥ 16 bar / 300 psi)

FUNCTIONAL SPECIFICATIONS

Proof Pressure:
 400 % F.S. (ranges ≤ 100 bar / 1500 psi)
 250 % F.S. (ranges ≥ 160 bar / 3000 psi)
Burst Pressure:
 1000 % F.S. (ranges ≤ 100 bar / 1500 psi)
 500 % F.S. (ranges 160 bar, 250 bar / 3000 psi)
 300 % F.S. (ranges ≥ 400 bar / 5000 psi)
Withstand Voltage: 350 VAC, 1 min
Insulation Voltage: 50 VDC, 100 M Ω min.
CE Compliance:
 EN 61326-1: 2006, EN 61326-2-3: 2006
 EU RoHS Compliance
Stability: $\pm 0,25$ % F.S./year

ELECTRICAL SPECIFICATIONS

Power Supply Requirements:
 Supply voltage: 16-36 VDC (with analog output option), 11-36 VDC (switch output version only)
 Current consumption: 50 mA (max.)
Switch Contacts:
 User selectable NPN or PNP open collector outputs
 NPN Type: 30 VDC/80 mA (max.)
 PNP Type: sensor supply voltage / 80 mA (max.), voltage drop 1 VDC (max.)

MECHANICAL SPECIFICATIONS

Pressure Connection:
 G $\frac{1}{4}$ B male according EN 837-1, G $\frac{1}{4}$ A male according DIN 3852 Part 11 Form E, $\frac{1}{4}$ NPT male according ANSI/ASME B1.20.1/EN 837-1
Enclosure: Nickel plated aluminum
Rating: IP65 (≤ 10 bar) / IP67 (> 10 bar)
Electrical Connection: M12 (4 pin)
Weight: Approx. 150 g
Media: Fluids and gases compatible with stainless steel 316 (1.4401) (sensor housing) and stainless steel 17-4 pH (1.4542/1.4548) (sensor diaphragm)



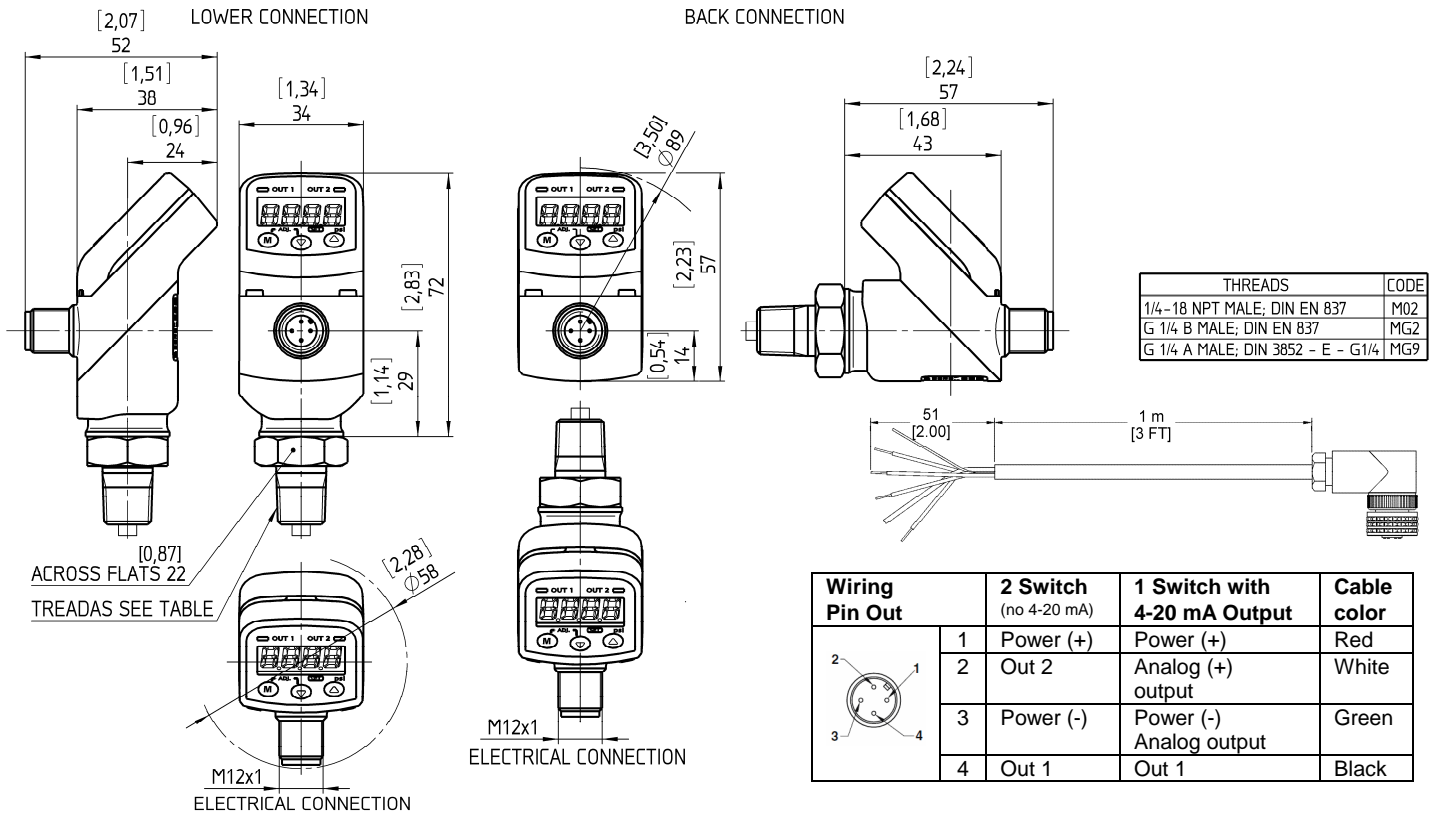
CE
 LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS

User configurable LED light ring changes color with switch set points

PRODUCT SPECIFICATIONS

Analog Output (4-20 mA):
Accuracy: $\pm 1,0$ % F.S. (accuracy includes effects of linearity, hysteresis, repeatability, zero offset and span setting errors)
Response Time: 30 ms up to 10 s (by user)
Output Resolution: $\pm 0,05$ % F.S.
Analog Scaling: User may configure analog output scaling to any range within -100 % to 150 % full scale of sensor range
Pressure Switch Output:
Type: NPN or PNP open collector up to 80 mA
Setting Accuracy: $\pm 1,0$ % F.S.
Response Time: 5 ms up to 10 s (by user)
Hysteresis: Variable (by user)
Switch Setting: User may adjust switch actuation and deadband to any points within full scale sensor range

General dimensions in mm [inch]



Order information

Type	Accuracy	Process connection	Output signal	Electrical connection	Range	Eng. unit	Options									
GC35	(7) 1,0 %	(M02L) 1/4 NPT male, lower connect	(41) 4-20 mA analog output with 1 switch (N2) No analog output, 2 switches	(EW) M12 without connector	Compound: 75#&V -15/75 150#&V -15/150 300#&V -15/300	psi	(NH) Tagging wired (CD4S) 3 point calibration certificate									
		(M02B) 1/4 NPT male, back connect						4BR&V -1/4 6BR&V -1/6 10BR&V -1/10	bar							
		(MG2L) G 1/4 B male acc. EN 837-1, lower connect								Gauge: 50#G 50 100#G 100 150#G 150 300#G 300 500#G 500 1000#G 1000 1500#G 1500 3000#G 3000 5000#G 5000 7500#G 7500	psi					
		(MG2B) G 1/4 B male, acc. EN 837-1, back connect										4BRG 4 6BRG 6 10BRG 10 16BRG 16 25BRG 25 40BRG 40 60BRG 60 100BRG 100 160BRG 160 250BRG 250 400BRG 400 600BRG 600	bar			
		(MG9L) G 1/4 A male acc. DIN 3852 form E, lower connect												To obtain M12 mating connector with 1 meter cable order part number 611C175-03	psi	(RH) 9 point traceable calibration certificate
		(MG2B) G 1/4 B male, acc. EN 837-1, back connect														
		(MG9L) G 1/4 A male acc. DIN 3852 form E, lower connect			psi											
		(MG2B) G 1/4 B male, acc. EN 837-1, back connect				psi										
		(MG9L) G 1/4 A male acc. DIN 3852 form E, lower connect					psi									
		(MG2B) G 1/4 B male, acc. EN 837-1, back connect						psi								
		(MG9L) G 1/4 A male acc. DIN 3852 form E, lower connect							psi							
		(MG2B) G 1/4 B male, acc. EN 837-1, back connect								psi						
(MG9L) G 1/4 A male acc. DIN 3852 form E, lower connect	psi															

Order example

Type	Accuracy	Process connection	Output signal	Electrical connection	Range	Engineering unit	Options
GC35	7	MG9L	41	EW	10	BAR	RH

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